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New North American Arthoniæ.

The learned Dr. Nylander of Paris has had the goodness to examine a collection of North American *Arthoniæ* sent him by me, and has published the descriptions of several new species in Nos. 16 and 24 of the Regensburg *Flora* of the present year, and which are here reproduced for the benefit of our lichenists.

I have to regret that Dr. Nylander was prevented by ill health and his numerous occupations from determining all the specimens sent him, but I am not without hopes that he may yet find himself able to do so. As being, as it were, the creator of the genus, no one else is so capable as he.

I would observe that *A. pyrrhuliza*, Nyl., has been distributed as *A. pyrrhula*, which, from the description, is quite a different plant. Of this, those with whom I have made exchanges will please take notice.—H. WILLEY.

Fastidiosum sane est novas species describere et infinitas ita minuties videri confusas exhibere. Sed non prætervideatur in scriptis præsertim hodiernis anatomicis vel physiologicis etiam multo magis prodiens nisus res minutulas inutiles amplissime prolixissimeque enarrare minutissimaque acriter consecrari, ita ut meritum evadat prolixitas.

Novæ species expositæ parvi sunt momenti nisi ubi addunt notas ad alias species jam cognitæ satius distinguendas et ubi constituendo systemati utiles sunt; unde sequitur, nullas descriptiones esse bonas sine additione notarum talium comparantium et simul descriptores parum cognitionibus generalibus methodoque optima initiatos vix descriptiones ullas rite facere valere.

Hic seriem incipimus Arthoniarum Americæ borealis, quas submisit præstantissimus H. Willey.

1. *Arthonia sanguinea*, Will.—Thallus vix ullus; apothecia obscure sanguinea, superficialia, oblonga vel subrotundata (latit. circiter 0.5^{mm.}), convexula intus obscura; sporæ 8næ incolores ellipsoideæ murali-divisæ, longit. 0.022—30^{mm.}, crassit. 0.011—14^{mm.} Iodo gelatina hymenialis cœrulescens, sporæ fulvo-rubrescentes.

In California super corticem et lignum. Species mox distincta colore apotheciorum. Maxime accedens sit *A. distendens*, Nyl., e Cuba (inde a C. Wright data n^{is} 154 et 156), cui apothecia nigra et sporæ multo majores (longit. 0.073—90^{mm.}, crassit. 0.024—27^{mm.})

2. *Arthonia xylographica*, Nyl.—Thallus macula pallescente indicatus; apothecia nigra adpressa lanceolato-diformia (latit. circiter 0.25

mm.). vel subastroidea; sporæ 8næ ovoideo-oblongæ 3-septatæ, longit. 0.012—15^{mm.}, crassit. 0.004—5^{mm.} Iodo gelatina hymenialis cœrulescens, dein protoplasma thecarum fulvescens.

Super lignum *Vaccinii corymbosi* in paludibus prope New Bedford. Forsan sola subspecies *A. astroidea*, a qua præsertim sporis nonnihil minoribus et reactione iodica differt. Gonidia vix ulla.

3. *Arthonia subastroidella*, Nyl.—Thallus vix ullus; apothecia nigra minuta, confuse astroidea, inæqualia; sporæ 8næ oviformi-oblongæ 3-septatæ, longit. 0.011—12^{mm.}, crassit. 0.004—5^{mm.} Iodo gelatina hymenialis vix reagens, protoplasma thecarum fulvo-rubescens.

Super corticem *Coryli* ibidem. Affinis *A. astroidea* vel potius *epipastoidi*, Nyl., sed reactione indicata differens.

4. *Arthonia quintaria*, Nyl.—Thallus macula pallescente indicatus; apothecia nigra subastroidea, minus divisa; sporæ 8næ oviformi-oblongæ 5-septatæ, longæ 0.018—21^{mm.}, crassit. 0.007—8^{mm.}, loculo supero majore. Iodo gelatina hymenialis et protoplasma thecarum vinose rubescens.

In Nova Cæsarea super corticem lævem. Affinis *A. astroidea*, simplicior figura et sporis jam distincta. In *A. obscura*, Ach., sporæ minores.

5. *Arthonia subminutula*, Nyl.—Thallus vix ullus; apothecia nigra tenera gracilenta astroideo-ramosa inæqualia; sporæ 8næ oviformes 1-septatæ, longit. 0.011—15^{mm.}, crassit. 0.004—5^{mm.} Iodo gelatina hymenialis vinose rubescens.

Super corticem *Pini Strobi* lævem ad N. Bedford. Species minutella affinis *A. dispersæ*, Schrad. (*A. minutula*, Nyl., *Arth.* p. 102), sed apotheciis ramosis, reactione alia.

6. *Arthonia Hamamelidis*, Nyl.—Similis *A. astroidea*, sporis minoribus (3-septatis), longit. 0.011—12^{mm.}, crassit. 0.004^{mm.} differens et ab *A. astroidella* subsimili iodo gelatina hymeniali cœrulescente, dein fulvo-rubescente, protoplasmate thecarum similiter tincto.

Super corticem *Hamamelidis Virginicæ* ad New Bedford (H. Willey).

7. *Arthonia fissurinea*, Nyl.—Thallus macula alba vel albicante, lævigata, indicatus; apothecia pallida innata sublanceolata concaviuscula (latit. circiter 0.2^{mm.}), margine thallode parum distincto; sporæ 8næ incolores oviformi-oblongæ, æqualiter 7—9-septatæ, longit. 0.028—32^{mm.}, crassit. 0.009—0.011^{mm.} Iodo gelatina hymenialis cœrulee tincta, dein fulvo-rubescens (sporæ etiam sic tinctæ).

Corticola in Florida. Species affinis *A. fissurinellæ*, sed magis albicans et apotheciis pallidis (nec incoloribus) etc.

8. *Arthonia pyrrhuliza*, Nyl.—Thallus albidus opacus, tenuiter obscure limitatus; apothecia rubricosa obscuriora, gracilescentia, varia, varie divisa; sporæ 8næ fuscae 3-septatæ, longit. 0.012—15^{mm.}, crassit. 0.0045^{mm.} Iodo gelatina hymenialis cœrulescens, dein fulvescenti-rubescens.

Super *Ilicis* corticem prope New Bedford (H. Willey). Sporis obscuratis mox differt a comparandis, quales sunt *A. pyrrhula* et *A. cascariellæ*, Fée, quarum definitiones hic addere liceat:

A. pyrrhula, Nyl., Enumer. Lich. suppl. p. 337 (nomen).—Thallus

macula albicante lata, satis determinata indicatus; apothecia coccinea linearia, subsimplicia aut parum ramulosa, angulatum sæpe flexuosa, innata, plana, opaca; sporæ 6—8næ incolores, 5—6-septatæ, oblongæ, sat magnæ, longit. 0.030—36^{mm}, crassit. 0.015^{mm}, utroque apice fere æquales loculoque apicali utroque parvo subæquali. Iodo gelatina hymenialis vinose rubens (passim præcedente cœrulescentia).

Super cortices in Carolina (hb. Tuck.) Differt ab *A. cinnabarina* apotheciis gracilentis, sporis aliis.

A. Cascarilla (Coniocarpon, Fée Ess. p. 98, t. 15, f. 4). Thallus albidus parum conspicuus, indeterminatus; apothecia obscure violacea vel fusca vel obsolete violaceæ tincta, innata, minuta, sat crebra, rotundata vel nonnihil difformia; sporæ 8næ incolores oblongo-oviformes 3-septatæ, longit. 0.014—16^{mm}, crassit. 0.005^{mm}. Iodo gelatina hymenialis intensive cœrulescens, dein fulvescens.

Super corticem *Crotonis Cascarilla*. Vix differens ab *A. adspersa* (Mnt.) nisi apotheciis minoribus simplicioribua.

9. *Arthonia diffusa*, Nyl., Enumér. Lich. suppl. p. 337 (nomen). Thallus albus vel albidus, tenuis, effusus, opacus, sæpe tenuissimus; apothecia nigra sparsa rotundata vel nonnihil difformia (latit. 0.3—0.7^{mm}), innata plana vel convexiuscula, intus albicantia; sporæ 8næ incolores oblongo-oviformes 3-septatæ, longit. 0.009—0.013^{mm}, crassit. 0.0035—0.0045^{mm}. Iodo gelatina hymenialis cœrulescens.

Corticola. Facie fere *A. cinereopruinosæ*, Schaer., sed sporis minoribus. Spermatia oblonga.

10. *Arthonia impallens*, Nyl.—Subsimilis *A. stenographellæ*, Nyl., Nov. Granat. 2, p. 99, sed apotheciis omnino pallidis. Sporæ ovoideo-oblongæ 2—3-septatæ, longit. 0.011—12^{mm}, crassit. 0.0035—45^{mm}. Iodo gelatina hymenialis cœrulescens. dein vinose fulvo-rubescens.

In New Jersey, supra *Ilicem* (Eckfeldt).

11. *Arthonia terrigena*, Will.—Thallus vix ullus visibilis; apothecia nigra minutella lecideoliformia (latit. fere 0.2^{mm}); sporæ 8næ incolores vel dilute fuscæ oviformi-oblongæ 1-septatæ, longit. 0.011—12^{mm}, crassit. 0.0035^{mm}. Iodo gelatina hymenialis non tincta, protoplasma thecarum vinose rubens.

Supra terram humosam nudam locis umbrosis prope New Bedford (Willey). Species inconspicua infima, cum nulla alia comparanda.

12. *Arthoria subminutissima*, Nyl.—Thallus nullus visibilis; apothecia nigra minutissima rotundata vel oblonga (latit. vix 0.1^{mm}); sporæ 8næ incolores oblongo-oviformes 1-septatæ, longit. 0.007—9^{mm}, crassit. 0.003^{mm}. Iodo gelatina hymenialis vinose fulvescens.

Pinicola prope New Bedford. Comparanda cum *A. minutissima* (Ach.) Nyl., Scand. p. 263, quæ sporas habet majores.

Observatio.

Arthonia patellulata, f. *subpallidiuscula*, apotheciis humidis obscure pallescentibus. Super corticem *Hamamelidis* prope New Bedford.

Quercus nigra.—While riding along the turnpike from Dix Hills to Comac, Suffolk County, I noticed an oak which I was satisfied was new to me. It seemed to be quite plentiful in that light, sandy soil. On my return home I found it to be *Quercus nigra*. As I have